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jc780 U.S. PTO  
03/03/00

# UTILITY PATENT APPLICATION TRANSMITTAL

(New Nonprovisional Applications Under 37 CFR § 1.53(b))

Attorney Docket No.

800470

## TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith is the patent application of ( ) application identifier or (X) first named inventor, Frank D. Tuttle, entitled Loan Compliance Auditing System And Method, for an:

(X) Original Patent Application.

( ) Continuing Application (prior application not abandoned):

( ) Continuation ( ) Divisional ( ) Continuation-in-part (CIP)

of prior application No: \_\_\_\_\_ Filed on: \_\_\_\_\_

( ) A statement claiming priority under 35 USC § 120 has been added to the specification.

Enclosed are:

(X) Specification; 25 Total Pages.

(X) Drawing(s); 10 Total Sheets.

(X) Oath or Declaration:

( ) A Newly Executed Combined Declaration and Power of Attorney:

( ) Signed. ( ) Unsigned. ( ) Partially Signed.

( ) A Copy from a Prior Application for Continuation/Divisional (37 CFR § 1.63(d)).

( ) Incorporation by Reference. The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied, is considered as being part of the disclosure of the accompanying application and is hereby incorporated herein by reference.

( ) Signed Statement Deleting Inventor(s) Named in the Prior Application. (37 CFR § 163(d)(2)).

(X) Power of Attorney.

(X) Return Receipt Postcard.

( ) Associate Power of Attorney.

(X) A Check in the amount of \$622.00 for the Filing Fee.

( ) Preliminary Amendment.

(X) Information Disclosure Statement and Form PTO-1449.

( ) A Duplicate Copy of this Form for Processing Fee Against Deposit Account.

( ) A Certified Copy of Priority Documents (if foreign priority is claimed).

(X) Statement(s) of Status as a Small Entity.

( ) Statement(s) of Status as a Small Entity Filed in Prior Application, Status Still Proper and Desired.

(X) Other: An Assignment with Cover Sheet

### CLAIMS AS FILED

FOR	NO. FILED	NO. EXTRA	RATE	FEE
Total Claims	42	22	\$9.00	\$ 198.00
Independent Claims	4	1	\$39.00	\$ 39.00
Multiple Dependent Claims (if applicable)				\$0.00
Assignment Recording Fee				\$40.00
Basic Filing Fee				\$345.00
Total Filing Fee				\$622.00

Charge \$ \_\_\_\_\_ to Deposit Account \_\_\_\_\_ pursuant to 37 CFR § 1.25. At any time during the pendency of this application, please charge any fees required or credit any overpayment to this Deposit Account.

Respectfully submitted,

By: Gail M. Taylor Russell  
Gail M. Taylor Russell, Attorney of Record, Reg. No.36,290

Date: March 3, 2000

Correspondence Address:

Taylor Russell & Russell, P.C.  
4807 Spicewood Springs Road  
Building One Suite 1200  
Austin, Texas 78759  
Phone: 512-338-4601  
Fax: 512-338-4651

I hereby certify that this is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated below and is addressed to:

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jc639 U.S. PTO  
09/518837  
03/03/00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of : Frank D. Tuttle  
Serial Number : To Be Assigned  
Filed : Herewith  
Group Art Unit : To Be Assigned  
For : Loan Compliance Auditing System And Method  
Examiner : Not Assigned  
Attorney Docket No. : 800470

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9 (f)  
AND 1.27 (c) - SMALL BUSINESS CONCERN

I hereby declare that I am

- ☐ the owner of the small business concern identified below:  
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF SMALL BUSINESS CONCERN: Assured Regulatory Compliance, Inc.  
ADDRESS OF SMALL BUSINESS CONCERN: 38 Cedarbrook  
Irvine, California 92620

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9 (d), for purposes of paying reduced fees to the Patent and Trademark Office, in that the number of employees of the business concern, including those of affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when wither, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contractor law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

- ☐ the specification filed herewith with title as listed above.  
☒ the application listed above.  
☐ the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention must file separate verified statements averring to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9 (c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9 (d), or a nonprofit organization under 37 CFR 1.9 (e).

Each person, concern or organization having any rights in the invention is listed below:

- ☒ no such person, concern, or organization  
☐ each such person, concern or organization is listed below

Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28 (b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: Frank D. Tuttle  
TITLE OF PERSON IF OTHER THAN OWNER: Chairman of the Board and Chief Technical Officer  
ADDRESS OF PERSON SIGNING: 38 Cedarbrook, Irvine, California 92620

SIGNATURE:



DATE:

3/2/2000

# TITLE OF THE INVENTION

Loan Compliance Auditing System and Method

by

Frank D. Tuttle

5           The present invention relates generally to systems for lending transactions involving loan origination for real estate. More particularly, the invention is a system, software program and method of use for businesses that originate and close loans secured by real estate to audit loan compliance with state and federal laws and regulations. The system and method may be accessed and delivered to  
10   the user over a global communications network such as the Internet.

## BACKGROUND

Lending money, that is, granting credit and borrowing money dates back many hundreds if not thousands of years. Throughout the history of lending, there have been many lessons learned that have been passed on in the way of laws  
15   that serve to protect the parties involved in credit transactions. Many laws are in effect to protect the borrower and to establish transactional standards and requirements. The Federal government, as well as the individual States, has enacted laws and regulations that impose requirements on companies in the business of originating and closing loans. The Federal government and many  
20   States also have government agencies to enforce the compliance of these laws. These laws provide guidance and requirements for businesses acting as lenders within the various jurisdictions involved.

Inclusive in these laws are clearly defined requirements for a consistent, complete and timely disclosure of transactional details. The requirements include  
25   but are not limited to costs and fees, the parties involved and their relationships,

the cost of credit using standardized calculations, limits and restrictions on repayment details, limits and restriction on penalties along with many requirements.

The lending requirements are varied and complex. So complex that the only method that has been used to verify a business's compliance with the requirements is a tedious manual operation involving a person looking through all of the data in a loan file and trying to find and identify any violations. Because of the large amount of time it takes to review a loan for compliance, not all loans are reviewed. Usually loan review is performed only on a statistical sampling of the loans. Not only is this process subject to the hit or miss proposition of sampling, it is also subject to varying degrees of individual understanding biases in interpretation. Because the requirements are complex and interrelated, errors in the audit process can occur. In summary, the current process is inefficient, time consuming, subject to errors, non-standardized and also subject to the problems of small sampling.

## SUMMARY

The present invention provides a system, software program and method of use that performs an auditing function, which evaluates the compliance of real estate loans with state and federal laws and regulations. The software audits compliance with laws or regulations, which require a business to obtain certain licenses, before doing business in a jurisdiction. The software also audits compliance with rules and requirements, such as lending requirements, which are imposed upon those businesses holding each type of license. The software will also audit compliance with state-specific exceptions to federal regulations, and to the interpretation of federal regulations.

5 The software program utilizes an interface and data scheme, for entering and storing all types of state licenses, along with the state-specific compliance and lending rules that correspond to each type of license. Upon user request for compliance verification, the software identifies the loan type and the license(s) that is necessary for the originator or lender to extend the loan. The software identifies whether the business possesses a current and valid issue of the required license(s). The software then uses data elements in the loan file, which may be input by the user, to evaluate whether the loan complies with the state and federal requirements and exceptions, which govern the applicable jurisdiction. The software then responds to the user, indicating the loan's compliance, or failure to comply, with the rules and requirements that govern the loan.

15 The invention also provides a method of delivering the loan compliance software results. The method involves hosting the software program on a web server, from which users can employ the software to perform their loan compliance auditing. The software may be licensed to users for a certain term, or on a per-use basis.

20 The system and computer-implemented method of use of the present invention automates the determination of Federal and State compliance through the application of rules, tests and calculations on a set of data that represents an application for credit, that is a loan application. The loan audit can be performed before a loan is closed to insure that the lender and/or the originator have complied with all the Federal and State lending laws. Non-compliance with those lending laws can be potentially significant violations that result in fines, penalties, reimbursements and even the loss of the license to lend or originate loans.

The system and computer-implemented method can also be audited after the loan is closed. The loans can be audited by or on behalf of the borrower, an investor prior to sale or transfer, a polling or rating agency that verifies quality for securities, the Federal and State loan auditing agencies and the lender as part of a statistical quality control program.

The loan data to be audited can be manually entered into the system via a user interface, provided to the system in a structured software file format on magnetic media such as CD-ROM, diskette or the like, and loaded into the loan audit system, or uploaded to the loan audit engine via various communications means including the internet.

The present invention comprises a computer-implemented method for auditing loan compliance with government loan lending and licensing requirements comprising allowing a user to display and enter loan audit compliance data, allowing a user to interactively build loan compliance rules and in response to a loan audit request retrieving the loan compliance rules and comparing the loan compliance rules to loan data to determine loan audit compliance.

The present invention also comprises a computer-implemented method for auditing loan compliance with government loan lending and licensing requirements, comprising allowing a user to display and enter loan audit compliance data, allowing a user to interactively build loan compliance rules comprising and in response to a loan audit request identifying a loan type and the loan originator, retrieving the loan originator licenses for the loan type and the loan originator, retrieving the loan compliance rules associated with the loan originator licenses and comparing the loan compliance rules to loan data to

determine loan audit compliance. Allowing the user to interactively build loan compliance rules comprises using applicable licenses for a geographic boundary, building loan compliance rules for all applicable licenses available within the geographic boundary and storing the loan compliance rules and associating

5 licenses from the applicable licenses with a loan originator to form a set of loan originator applicable licenses and storing the list of loan originator licenses. The geographic boundary may be a state boundary.

The method further comprises building rules for all applicable licenses available within the geographic boundary using compliance base rule variables

10 and rule building instructions and storing the loan compliance rules in a rule library.

Building rules for all licenses available within the geographic boundary comprises using the compliance base rule variables and rule building instructions and allowing the user to add a new license to the applicable licenses available

15 and allowing a user to build new rules for the new license.

The method further comprises, if a rule exists in the rule library for a license, allowing the user to review the rule and change the rule. The compliance base rule variables represent data elements in a loan file. The rule building instructions comprise allowing the user to build rules by specifying equations using base rule

20 variables. The rule building instructions allow for the controlling of the rule building process to eliminate rule errors.

The method further comprises associating the loan compliance rules with a license to form a set of assigned compliance rules. In the method, the user displays and enters loan data using a user interface embodied in a computer

25 processor that communicates with the rule library via a communications network.

The communications network is a global communications network. The user is allowed to identify and store applicable exemptions to the government license requirements in the assigned compliance rules. The communications network may be selected from the group consisting of a satellite communication  
5 network, a telephone communication network, a microwave transmission network, a radio communication network and a wireless telephone communication network.

The government loan lender requirements may be state or federal loan requirements. The licensing requirements may be state or federal licensing  
10 requirements.

The present invention comprises a computer implemented method for auditing loan compliance with government and loan lending requirements, comprising electronically transferring loan data from a user interface embodied in a computer processor to a loan audit server computer over a communications  
15 network. At the user interface computer, the method allows a user to interactively build loan compliance rules using compliance based rule variables and rule building instructions. Interactively building loan compliance rules comprises using licenses applicable to the state, building rules for all applicable licenses available within the state and associating the applicable licenses with a loan originator to  
20 form a list of loan originator applicable licenses and storing the loan originator applicable licenses. The method further comprises storing the loan compliance rules in a database connected to the loan audit server computer. In response to a loan audit request, the method allows for the identifying of a loan type and the loan originator, retrieving the applicable licenses for the loan type and the loan  
25 originator by the loan server, retrieving the loan compliance rules associated with



the applicable licenses from the stored rules in the database by the loan server, comparing the loan compliance rules to loan data to determine loan audit compliance results by the loan server, and electronically transferring the loan audit compliance results from the loan server to the user over a communications  
5 network.

The invention comprises a software program embodied on a computer-readable medium incorporating the method as recited above.

The invention is a system for auditing loan compliance with government and loan lending requirements, comprising a user interface for displaying and  
10 entering loan audit compliance data and a loan audit server communicating with the user interface. The loan audit server allows a user to interactively build a set of loan compliance rules using compliance base rule variables and rule building instructions. The system further comprises storing the loan compliance rules and in response to a loan audit request: identifying a loan type, determining the loan  
15 compliance rules that apply to the loan type and comparing the loan compliance rules to loan data associated with the loan audit request to determine loan audit results. The loan audit results may be stored in an audit compliance report. The loan audit results may be stored on media selected from the group consisting of a hardcopy report, a tape, a film and a CD-ROM.

20 Interactively building a set of loan compliance rules comprises using applicable licenses for the state, the user builds rules for all licenses available within the state using the compliance base rule variable and rule building instructions and stores the rules in a rule library and using the applicable licenses, allowing the user to associate the applicable licenses with a loan  
25 originator to form the loan originator applicable licenses.

In comparing the loan compliance rules with the loan data, the loan audit server identifies a loan type and loan originator, retrieves the applicable licenses for the loan type and the loan originator, retrieves the loan compliance rules associated with the applicable licenses from the stored rules in the rule library,

5 compares the loan compliance rules to the loan data and compiles the loan audit results.

The loan compliance rules comprise compliance based rule variables, rule building, a compliance rules data library, assigned compliance rules, a list of government licenses for loan originators and data application rules.

10 The loan audit results are displayed to the user via the user interface. The user interface is embodied in a computer processor that communicates with the loan audit server via a communications network. The loan audit server comprises a global communications network ("web") data server capable of transmitting and receiving loan data to and from the user via a global

15 communications network. The user interface may communicate with a web browser for transmitting and receiving the loan data and the loan audit results. The communications network for the system may be the Internet, a satellite communication network, a telephone communication network, a microwave transmission network, a radio communication network, and a wireless telephone

20 communication network.

#### BRIEF DESCRIPTION OF THE DRAWINGS

These and other features, aspects and advantages of the present invention will become better understood with regard to the following description, appended claims and accompanying drawings where:

Fig. 1 is a system architecture diagram of the loan compliance auditing system.

Fig. 2 is a system architecture diagram of the loan compliance rules and data.

5 Figs. 3, 4, and 5 are exemplary displays of the user interface screens for entering and displaying government rules and licenses for loans.

Figs. 6 and 7 are exemplary displays of the user interface screens for managing the compliance rules libraries. Fig. 6 is a display of the loan compliance library. Fig. 7 is a display of the rule building instructions for the  
10 compliance rules.

Fig. 8 is an exemplary display of the user interface screen for displaying all the specific loan rules from the loan rule library that may be applicable for a given license.

Fig. 9 is an exemplary display of the user interface for assigning  
15 government licenses for loan originators and lenders.

Fig. 10 is a flowchart of the process of building the loan compliance rules and data.

Fig. 11 shows a block diagram of a loan compliance auditing system.

#### DETAILED DESCRIPTION OF THE DRAWINGS

20 Fig. 1 is a system architecture diagram of the loan compliance auditing system. In order to initiate a loan audit, the loan data 11, either from the loan application or from a closed loan, is presented to the audit engine 12. The audit engine accesses the loan compliance rules 13 for the loan. A calculation engine and rule interpreter 14 interprets the loan compliance rules 13 and then performs  
25 the checks and calculations against the loan application data 11. The output of

this process is the loan audit result 15, which analyzes the loan data 11 (loan application or closed loan), based on the loan compliance rules 13.

Fig. 2 is a system architecture diagram of the loan compliance rules and data 13 showing the communication with a user interface 21 and the loan audit engine 12. Compliance base rule variables 22 are the elements that the loan compliance rules and data 13 are constructed from. The compliance base rule variables 22 represent data elements in a loan file. Items such as prepaid interest or the sum of broker fees can be represented and stored as compliance base rule variables 22. Rule building instructions and data 20 allow a user to build compliance rules using the base rule variables 22 and assembling them in math-like equations using operands (such as +, -, /, \*, >, <, <=, >=, ln) to represent a State or Federal requirement or restriction. A user interface 21, such as the rule building user interfaces shown in Fig. 7 and Fig. 8 allows a user to select the base variables and operands to assemble the desired rule and to store them in the rule library. The user interface 21 manages the rule building instructions 20 that control the rule building process to eliminate rule errors due to user math equation construction or operator errors. The compliance rules data library 23 is the stored database of compliance rules that have been built. Rules need only be built once and then stored in the compliance rules data library 23. The stored rules can then be accessed by the user through a user interface 21 and displayed or used to reference or build other license rules. The compliance rules library user interface and data is shown in Fig. 6.

After a rule is built, it is saved in the compliance rules data library 23. The rules in the compliance rules data library 23 are unassigned, that is, they are not associated with a specific loan or license. A reference to the rule is established

through the assignment process as provided by the user interface 51 in Fig. 5.

The government licenses for originators and lenders 25 are the licenses and rules for the federal, state and other government entities. For each license, rules must be selected and assigned from the compliance rules library 23. When

5 assigned to a license, the rules become assigned compliance rules 24 and are now associated with that license. The specific data application rules 42 for a loan are additional rules that specify whether a compliance rule is applicable to a particular loan. For example, some rules may only apply to first mortgages. The rules may entered by the user via the user interface 21 or may be entered via  
10 other means, such as accessing and downloading stored rules through a network interface, such as the Internet, or accessing rules stored on magnetic media, such as CD-ROM, diskettes and the like.

Fig. 3 is an exemplary display of the user interface screen for entering state specific loan compliance rules and data 30. The user selects the particular  
15 state where the loan is to be originated 31. The existing defaults for the loan are then displayed to the user. If there are no defaults, the user may enter the data using the user interface 30. For example, as shown in Fig. 3, the late fees that are allowed in the particular state are displayed for lien 1 (a first mortgage) and lien 2 (a second mortgage) 32. The user may have entered this data or the  
20 display may be the defaults previously entered into the system.

Figs. 4 and 5 are exemplary displays of the user interface screens for entering and displaying government rules and licenses. Fig. 4 shows the display where all state licenses are entered and maintained 40. Each state may allow one or many difference licenses. The licenses allow originators and/or lenders to  
25 originate or close loans on properties within the state. The licensing portion 41 of

the display and user interface allows for the entry of the specific data regarding the state authority governing the loan. In the example shown, the Department of Real Estate governs the real estate office license, in this case in the state of California. The state rules and limits portion of the display 42 allows for the appropriate rules that are related to the specific license to be entered, revised or displayed 41. The license requirements are defined as a rule using the rule building tools and then the rules are selected from a list and used wherever they apply. Fig. 5 shows the compliance rules library user interface 50. Lists of the available rules from the rules library that can be selected from in order to add a rule to a specific license are shown. Selecting a rule 51 causes the its details to be displayed below 52. Fig. 6 shows the user interface screen for modifying the rules description 60. This is the rule object that is displaying the library of compliance rules that have been built and stored and are available for assignment. Selecting a rule description 61 causes the detailed rule equation to be displayed on the screen 62. Fig. 7 shows the user interface for creating or changing a rule equation 70. The user selects the rule 71 and then enters the rule logic to be applied to the rule 72.

Fig. 8 is an exemplary display of the user interface screen for displaying all the loan rules that may be applicable for a given license 80. The loan rules are used to effect the application of the compliance rules. The loan rules displayed 81 represent the current list available for a selected license. For instance, a rule may only be applicable for a first mortgage and a different rule may be applicable for a second mortgage.

Fig. 9 is an exemplary display of the user interface for assigning government licenses for loan originators and lenders 90. The user may assign

the license that the entity is using in the state 91. The user may enter in any exemptions, for example, if there is a Federal exemption and a state license is not required or applicable, the user can identify the exemption and its reason. The exemptions may then be stored in the loan compliance rules and data and  
5 reused when auditing other similar loans that may have the same applicable exemptions.

Fig. 10 is a flowchart of the process of building the loan compliance rules and data. The user identifies all government licenses (including Federal, State and any other government entities) and exemptions for each loan originator and  
10 lender 101. This can be done by the user using a display similar to that shown in Fig. 4. If the applicable license is not present in the list displayed to the user 102, then the user adds the appropriate state license 103. The user then adds the appropriate license rule and adds the rule to the license 107. If the license is present in the list displayed to the user 102, and the license needs to be reviewed  
15 104, the user selected the state and license 105. The user then reviews all of the rules assigned to that license from the rule library 106. If a rule is missing, then the user selected the rule library where the user can review all the existing defined rules and can add new rules to the library 108 as shown in Figs. 6 and 8. Using the rule builder 109 (as shown in Fig. 7), the user builds a new rule or  
20 changes an existing rule. The rule is stored in the rule library 110 and is available for assignment to a license. If there are more rules or licenses to enter or review 111, processing continues at step 102. If there are no more rules or licenses to enter or review 11, the rules are now ready to be used to audit the loan data.

Fig. 11 shows a block diagram of a loan compliance auditing system 120.  
25 The loan compliance audit system 120 includes a loan audit server 121, at least

one loan audit station 122 and 125, a loan compliance rules database 123 and a communication network 124.

5 The loan audit server 121 comprises a device or set of devices couple to the network 124, such as a general purpose processor operating under control of an operating system and application software disposed to respond to messages from the loan audit stations 122 and 125. In different embodiments, the server can comprise a UNIX® or Microsoft NT® server. The loan audit server 121 can communicate with a database of loan compliance rules 123. The loan audit server 121 may also contain the loan audit engine (Fig. 1, 12) software program modules and the rule interpreter and calculation engine (Fig. 1, 14) software program modules. The loan audit server may be a web server. In another embodiment, the loan audit server 121 can communicate with other processors or servers hosting the loan audit engine and the rule interpreter and calculation engine software program modules. Each module can be executed as a separate logical server or using a separate physical device.

15 The loan audit stations 122 and 125 comprise a device or set of devices such as a general purpose processor operating under the control of an operations system and application software and containing a user interface display for entering data and viewing loan audit results. In one embodiment, the loan audit station can comprise a personal computer and the like or can comprise software operating a processor used for the loan audit server 121.

20 For the loan audit stations 122 and 125, the loan audit server 121 operates as a single logical server available either through the communication network 124 or through a direct interface to the loan audit station 122. The communication network 124 provides for communication between the loan audit server 121 and



the loan audit station 125. The network may be a wide area network (WAN), local area network (LAN), intranet, global communications network such as the internet, wireless network or other type of communication connection to link the loan audit station 125 to the loan audit server 121.

5           Using the foregoing, the invention may be implemented using standard programming or engineering techniques including computer programming software, firmware, hardware or any combination or subset thereof. Any such resulting program, having a computer readable program code means, may be embodied or provided within one or more computer readable or usable media,  
10           thereby making a computer program product, i. e. an article of manufacture, according to the invention. The computer readable media may be, for instance a fixed (hard) drive, disk, diskette, optical disk, magnetic tape, semiconductor memory such as read-only memory (ROM), or any transmitting/receiving medium such as the Internet or other communication network or link. The article of  
15           manufacture containing the computer programming code may be made and/or used by executing the code directly from one medium, by copying the code from one medium to another medium, or by transmitting the code over a network.

          An apparatus for making, using or selling the invention may be one or more processing systems including, but not limited to, a central processing unit  
20           (CPU), memory, storage devices, communication links, communication devices, server, I/O devices, or any sub-components or individual parts of one or more processing systems, including software, firmware, hardware or any combination or subset thereof, which embody the invention as set forth in the claims.

User input may be received from the keyboard, mouse, pen, voice, touch screen, or any other means by which a human can input data to a computer, including through other programs such as application programs.

- Although the present invention has been described in detail with reference
- 5 to certain preferred embodiments, it should be apparent that modifications and adaptations to those embodiments may occur to persons skilled in the art without departing from the spirit and scope of the present invention as set forth in the following claims.

10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95

What is claimed is:

- 1           1.     A computer-implemented method for auditing loan compliance with  
2     government loan lending and licensing requirements, comprising:  
3           a.     allowing a user to display and enter loan audit compliance data;  
4           b.     allowing a user to interactively build loan compliance rules; and  
5           c.     in response to a loan audit request:  
6                i.   retrieving the loan compliance rules;  
7                ii.   comparing the loan compliance rules to loan data to determine loan audit  
8     compliance.
- 1           2.     A computer-implemented method for auditing loan compliance with  
2     government loan lending and licensing requirements, comprising:  
3           a.     allowing a user to display and enter loan audit compliance data;  
4           b.     allowing a user to interactively build loan compliance rules  
5     comprising:  
6                i.   using applicable licenses for a geographic boundary, building loan  
7     compliance rules for all applicable licenses available within the geographic  
8     boundary and storing the loan compliance rules; and  
9                ii.   associating licenses from the applicable licenses with a loan originator to  
10    form a set of loan originator applicable licenses and storing the list of loan  
11    originator licenses; and  
12          c.     in response to a loan audit request:  
13                i.   identifying a loan type and the loan originator;  
14                ii.   retrieving the loan originator licenses for the loan type and the loan  
15    originator;

16           iii. retrieving the loan compliance rules associated with the loan originator  
17 licenses;  
18           iv. comparing the loan compliance rules to loan data to determine loan audit  
19 compliance.

1           3.     The method of claim 2 further comprising building rules for all  
2 applicable licenses available within the geographic boundary using compliance  
3 base rule variables and rule building instructions and storing the loan compliance  
4 rules in a rule library.

1           4.     The method of claim 3 wherein building rules for all licenses  
2 available within the geographic boundary using the compliance base rule  
3 variables and rule building instructions further comprises:

- 4           a. allowing the user to add a new license to the applicable licenses available;  
5           and  
6           b. allowing a user to build new rules for the new license.

1           5.     The method of claim 2 further comprising storing the loan  
2 compliance rules in a rule library.

1           6.     The method of claim 5 further comprising, if a rule exists in the rule  
2 library for a license, allowing the user to review the rule.

1           7.     The method of claim 5 further comprising, if a rule exists in the rule  
2 library for a license, allowing the user to change the rule.

1           8.     The method of claim 5 further comprising allowing the user to  
2 modify the loan compliance rules in the rule library.

1           9.     The method of claim 3 wherein the compliance base rule variables  
2 represent data elements in a loan file.

1           10.    The method of claim 3 wherein the rule building instructions  
2   comprise allowing the user to build rules by specifying equations using base rule  
3   variables.

1           11.    The method of claim 10 wherein the rule building instructions  
2   comprise controlling the rule building process to eliminate rule errors.

1           12.    The method of claim 2 further comprising associating the loan  
2   compliance rules with a license to form a set of assigned compliance rules.

1           13.    The method of claim 2 wherein the geographic boundary is a state.

1           14.    The method of claim 5 wherein the user displays and enters loan  
2   data using a user interface embodied in a computer processor that  
3   communicates with the rule library via a communications network.

1           15.    The method of claim 14 wherein the communications network is a  
2   global communications network.

1           16.    The method of claim 12 further comprising allowing a user to  
2   identify and store applicable exemptions to the government license requirements  
3   in the assigned compliance rules.

1           17.    The method of claim 13 wherein the government loan lender  
2   requirements are state loan requirements.

1           18.    The method of claim 13 wherein the government loan lender  
2   requirements are federal loan requirements.

1           19.    The method of claim 13 wherein the licensing requirements are  
2   state licensing requirements.

1           20.    The method of claim 13 wherein the licensing requirements are  
2   federal licensing requirements.

1           21.    The method of claim 14 wherein the communications network is  
2   selected from the group consisting of a satellite communication network, a  
3   telephone communication network, a microwave transmission network, a radio  
4   communication network and a wireless telephone communication network.

1           22.    A computer implemented method for auditing loan compliance with  
2   government and loan lending requirements, comprising:

3           a.   electronically transferring loan data from a user interface embodied in a  
4               computer processor to a loan audit server computer over a  
5               communications network;

6           b.   at the user interface computer, allowing a user to interactively build loan  
7               compliance rules using compliance based rule variables and rule building  
8               instructions comprising:

9               i.   using licenses applicable to the state, building rules for all applicable  
10               licenses available within the state; and

11              ii.   associating the applicable licenses with a loan originator to form a list of  
12               loan originator applicable licenses and storing the loan originator applicable  
13               licenses;

14           c.   storing the loan compliance rules in a database connected to the loan  
15               audit server computer;

16           d.   in response to a loan audit request:

17              i.   identifying a loan type and the loan originator;

18              ii.   retrieving the applicable licenses for the loan type and the loan originator  
19               by the loan server;

20              iii.   retrieving the loan compliance rules associated with the applicable  
21               licenses from the stored rules in the database by the loan server;

22           iv. comparing the loan compliance rules to loan data to determine loan audit  
23 compliance results by the loan server; and

24           v. electronically transferring the loan audit compliance results from the loan  
25 server to the user over a communications network.

1           23.    A software program embodied on a computer-readable medium  
2 incorporating the method as recited in claim 2.

1           24.    A software program embodied on a computer-readable medium  
2 incorporating the method as recited in claim 22.

1           25.    A system for auditing loan compliance with government and loan  
2 lending requirements, comprising:

3           a.     a user interface for displaying and entering loan audit compliance  
4 data; and

5           b.     a loan audit server communicating with the user interface that:

6           i.     allows a user to interactively build a set of loan compliance rules using  
7 compliance base rule variables and rule building instructions;

8           ii.    stores the loan compliance rules;

9           iii.   in response to a loan audit request:

10           1.    identifies a loan type;

11           2.    determines the loan compliance rules that apply to the loan type;

12           3.    compares the loan compliance rules to loan data associated with  
13 the loan audit request to determine loan audit results.

1           26.    The system of claim 25 wherein the loan audit results are displayed  
2 to the user via the user interface.

1            27.    The system of claim 25 wherein the user interface is embodied in a  
2    computer processor that communicates with the loan audit server via a  
3    communications network.

1           28.     The system of claim 25 wherein the loan audit server comprises a  
2     global communications network ("web") data server capable of transmitting and  
3     receiving loan data to and from the user via a global communications network.

1           29.    The system of claim 27 wherein the communications network is the  
2   Internet.

1           30.    The system of claim 25 further comprising storing the loan audit  
2    results in an audit compliance report.

1           31.    The system of claim 25 wherein the loan compliance rules are built  
2    by the user using the user interface.

1           32.    The system of claim 25 wherein interactively building a set of loan  
2   compliance rules comprises:

3       a. using applicable licenses for the state, the user builds rules for all licenses  
4       available within the state using the compliance base rule variable and rule  
5       building instructions and stores the rules in a rule library; and

b. using the applicable licenses, the user associates the applicable licenses with a loan originator to form the loan originator applicable licenses.

1           33.     The system of claim 32 wherein in comparing the loan compliance  
2     rules with the loan data, the loan audit server:

3 a. identifies a loan type and loan originator;

b. retrieves the applicable licenses for the loan type and the loan originator;

c. retrieves the loan compliance rules associated with the applicable licenses  
from the stored rules in the rule library:



- 7 d. compares the loan compliance rules to the loan data; and
- 8 e. compiles the loan audit results.

1 34. The system of claim 27 wherein the communications network  
2 comprises a satellite communication network.

1 35. The system of claim 27 wherein the communications network  
2 comprises a telephone communication network.

1 36. The system of claim 27 wherein the communications network  
2 comprises a microwave transmission network.

1 37. The system of claim 27 wherein the communications network  
2 comprises a radio communication network.

1 38. The system of claim 27 wherein the communications network  
2 comprises a wireless telephone communication network.

1 39. The system of claim 25 further comprising a generating a hardcopy  
2 of the loan audit results.

1 40. The system of claim 25 further comprising storing the loan audit  
2 results on media selected from the group consisting of a hardcopy report, a tape,  
3 a film and a CD-ROM.

1 41. The system of claim 25 wherein loan compliance rules comprise:

- 2 a. compliance based rule variables;
- 3 b. rule building instructions;
- 4 c. a compliance rules data library;
- 5 d. assigned compliance rules;
- 6 e. a list of government licenses for loan originators; and
- 7 f. data application rules.

1           42.    The system of claim 23 wherein the user interface communicates  
2   with a web browser for transmitting and receiving the loan data and the loan audit  
3   results.

Parameter	Value	Parameter	Value
$\alpha_1$	0.0000	$\alpha_2$	0.0000
$\alpha_3$	0.0000	$\alpha_4$	0.0000
$\alpha_5$	0.0000	$\alpha_6$	0.0000
$\alpha_7$	0.0000	$\alpha_8$	0.0000
$\alpha_9$	0.0000	$\alpha_{10}$	0.0000
$\alpha_{11}$	0.0000	$\alpha_{12}$	0.0000
$\alpha_{13}$	0.0000	$\alpha_{14}$	0.0000
$\alpha_{15}$	0.0000	$\alpha_{16}$	0.0000
$\alpha_{17}$	0.0000	$\alpha_{18}$	0.0000
$\alpha_{19}$	0.0000	$\alpha_{20}$	0.0000
$\alpha_{21}$	0.0000	$\alpha_{22}$	0.0000
$\alpha_{23}$	0.0000	$\alpha_{24}$	0.0000
$\alpha_{25}$	0.0000	$\alpha_{26}$	0.0000
$\alpha_{27}$	0.0000	$\alpha_{28}$	0.0000
$\alpha_{29}$	0.0000	$\alpha_{30}$	0.0000
$\alpha_{31}$	0.0000	$\alpha_{32}$	0.0000
$\alpha_{33}$	0.0000	$\alpha_{34}$	0.0000
$\alpha_{35}$	0.0000	$\alpha_{36}$	0.0000
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$\alpha_{39}$	0.0000	$\alpha_{40}$	0.0000
$\alpha_{41}$	0.0000	$\alpha_{42}$	0.0000
$\alpha_{43}$	0.0000	$\alpha_{44}$	0.0000
$\alpha_{45}$	0.0000	$\alpha_{46}$	0.0000
$\alpha_{47}$	0.0000	$\alpha_{48}$	0.0000
$\alpha_{49}$	0.0000	$\alpha_{50}$	0.0000
$\alpha_{51}$	0.0000	$\alpha_{52}$	0.0000
$\alpha_{53}$	0.0000	$\alpha_{54}$	0.0000
$\alpha_{55}$	0.0000	$\alpha_{56}$	0.0000
$\alpha_{57}$	0.0000	$\alpha_{58}$	0.0000
$\alpha_{59}$	0.0000	$\alpha_{60}$	0.0000
$\alpha_{61}$	0.0000	$\alpha_{62}$	0.0000
$\alpha_{63}$	0.0000	$\alpha_{64}$	0.0000
$\alpha_{65}$	0.0000	$\alpha_{66}$	0.0000
$\alpha_{67}$	0.0000	$\alpha_{68}$	0.0000
$\alpha_{69}$	0.0000	$\alpha_{70}$	0.0000
$\alpha_{71}$	0.0000	$\alpha_{72}$	0.0000
$\alpha_{73}$	0.0000	$\alpha_{74}$	0.0000
$\alpha_{75}$	0.0000	$\alpha_{76}$	0.0000
$\alpha_{77}$	0.0000	$\alpha_{78}$	0.0000
$\alpha_{79}$	0.0000	$\alpha_{80}$	0.0000
$\alpha_{81}$	0.0000	$\alpha_{82}$	0.0000
$\alpha_{83}$	0.0000	$\alpha_{84}$	0.0000
$\alpha_{85}$	0.0000	$\alpha_{86}$	0.0000
$\alpha_{87}$	0.0000	$\alpha_{88}$	0.0000
$\alpha_{89}$	0.0000	$\alpha_{90}$	0.0000
$\alpha_{91}$	0.0000	$\alpha_{92}$	0.0000
$\alpha_{93}$	0.0000	$\alpha_{94}$	0.0000
$\alpha_{95}$	0.0000	$\alpha_{96}$	0.0000
$\alpha_{97}$	0.0000	$\alpha_{98}$	0.0000
$\alpha_{99}$	0.0000	$\alpha_{100}$	0.0000

5 interactively build a set of loan compliance rules. The loan compliance rules are built for all loan licenses available within a locality. The applicable licenses are then associated with a loan originator to form a list of applicable licenses for the loan originator. In response to a loan audit request, the system identifies the loan type and the loan originator, retrieves the applicable license for the loan type and  
10 the loan originator and then retrieves the loan compliance rules associated with the applicable licenses. The system compares the loan compliance rules to the loan data to determine loan audit compliance.

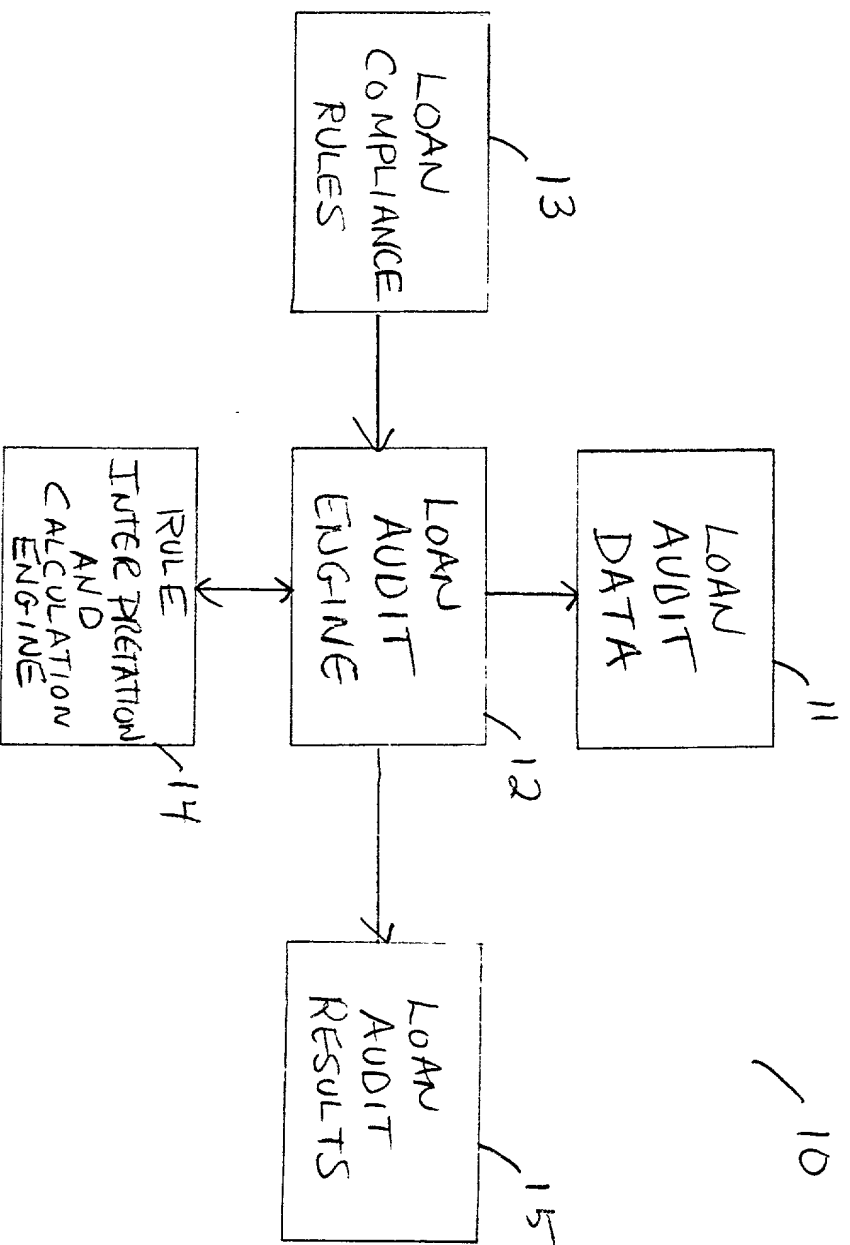


Fig 1

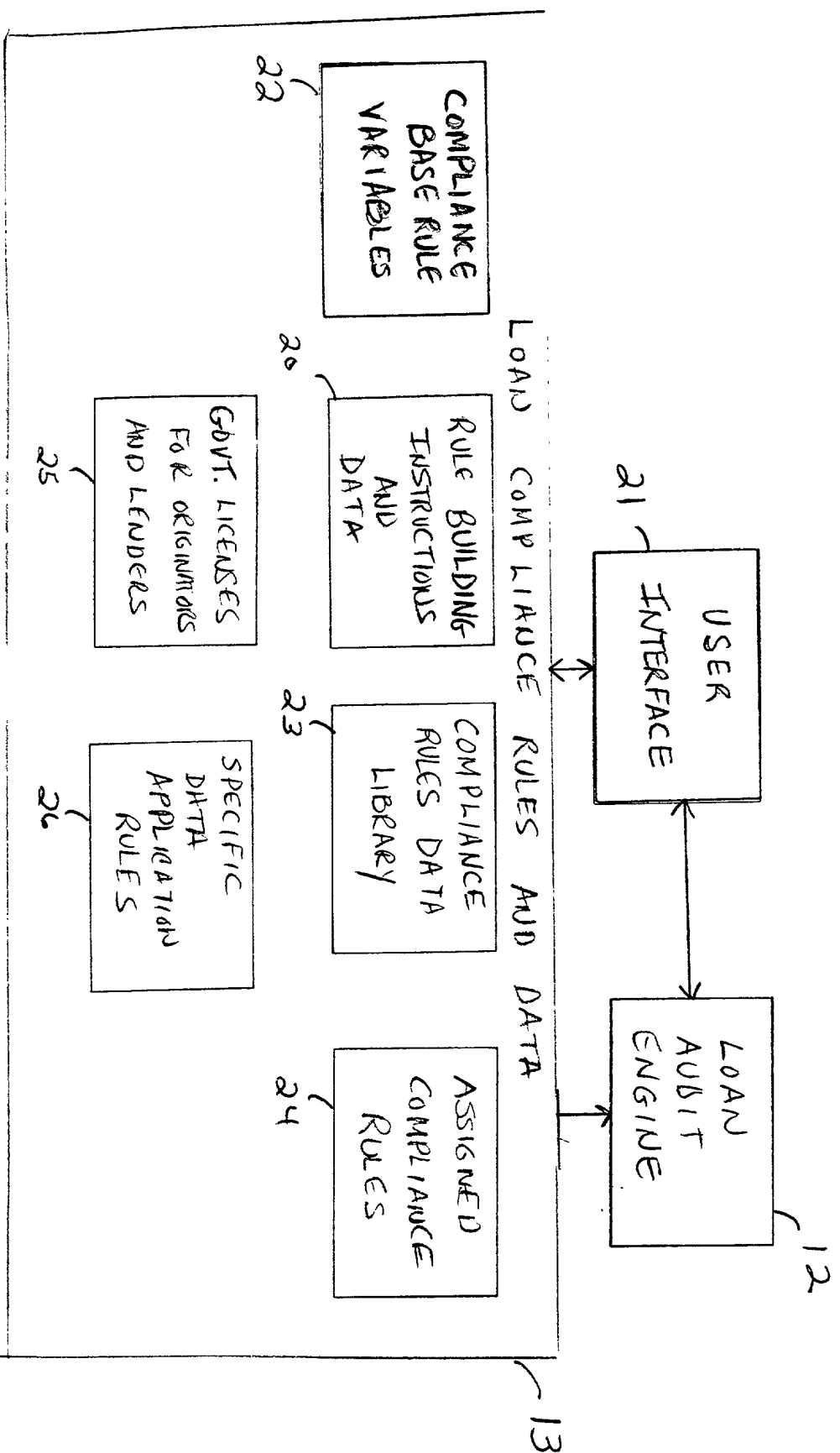


Fig. 2

State Tax Schedules

Default: Rules/Licensing Messages

☐ Mfg State ☐ Wet State ☐ Wet/Dry State ☒ FRA Hi Cost

State Taxes:

Schedule: Semi-Annual

1st: Nov Grace days: 40

2nd: Mar Due Day: 15

3rd: Tax Rate: 1.25%

4th: Service Fee: \$63

Trustee Information

trustee  
public official  
private party  
title company  
none

Prepayment Penalty:

1st Message: 6 months interest at the yearly rate of interest

2nd Message: 6 months interest at the yearly rate of interest

Late Fees:

Lien	Min \$	Fee \$	Fee %	Grace	Method
1	\$0.00	\$0.00	5%	15	Equal to %
2	\$5.00	\$5.00	6%	10	Greater of % or \$

Records: 1 of 2

Manually adding fees to a loan file: No Print Logic

Assigning a Min Rule or Logic will allow any fee to be individually added to any loan file. Otherwise if another rule is selected, only loans meeting the selected rule will allow fees to be added individually according to the rule.

Fig. 3

State Tax Schedules

AK AL AR AZ CA CD CT DE FL GA HI IA IL IN KS KY LA MA MD ME MI MN MO MS MT NC ND NE NH NJ NM NY OH OK OR PA PR

Details Rules/Licensing Messages

State Requirer Licensing: ☒ Branch Licensing Req'd For:

Other Comment:

**Licensing**

Lic: Real Estate Officer License Rule: State Licenses - First and Junior Mortg Act: Msg:	Contact: Name: Department of Real Estate Name 2: Addr 1: Addr 2:	City/SL: Zip/Zip+4: Phone: Fax:
Lic: Residential Mortgage Lender Rule: State Licenses - First and Junior Mortg Act: Msg:	Contact: Name: Department of Corporations Name 2: Addr 1: Addr 2:	City/SL: Zip/Zip+4: Phone: Fax:
Lic: Real Estate Officer License - Broker Rule: State Licenses - First and Junior Mortg Act: Msg:	Contact: Name: Name 2: Addr 1: Addr 2:	City/SL: Zip/Zip+4: Phone: Fax:

Records: 14 1 of 4

**State Rules and Limits**

State Rule:	Loan Rule:
Loan Amt <\$35,000 max Bkr/Lndr fee < 10%	State Licenses - First Mortgages
Loan Amt to \$25,000, fees limited to 15% plus \$700	State Licenses - Junior Mortgages
Late Fee max 6%	State Licenses - First and Junior Mortgages
Prepayment term limited to first seven years	State Licenses - First and Junior Mortgages
	No Print Logic

Records: 1 1 of 1

Fig 4

59 State Tax Schedules

AK AL AR AZ CA CO CT DE DC FL GA HI IA ID IL IN KS KY LA MA MD ME MI MN MO MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR

Defaults Rules/Licensing Messages

State License:

Loan Amt < \$35,000 max Bkr/Lndr fee < 10%

Loan amt < \$50,000 has APR <= 21%

Loan amt <= \$25,000 has max APR of 16%

Loan Amt > \$100,000 has APR <= 21%

Loan amt > \$25,000 to \$300,000 max lender fee 2%

Loan Amt to \$25,000, fees limited to 15% plus \$700

Max loan term 15 yrs

Min loan amount \$10,001 on equity lines

Min loan amount \$10,001 on closed end seconds

Min loan amount \$25,001 on equity lines

Min loan amount \$5,001 on closed end seconds

Min Loan amount = \$1,001

Min loan amount = \$15,001

Min Loan Amount = \$2,000

Min loan amount = \$2,001

Min loan amount = \$2,500

Min loan amount = \$20,000

Min loan amount = \$25,000

Min Loan Amount = \$25,001

Min loan amount = \$2501

Real Estate

City/State

Zip/Zip+4

Phone

Fax

Of Corporations

City/State

Zip/Zip+4

Phone

Fax

City/State

Zip/Zip+4

Phone

Fax

Loan Rule:

State Licenses - First Mortgages

State Licenses - Junior Mortgages

State Licenses - First and Junior Mortgages

State Licenses - First and Junior Mortgages

No Print Logic

Record: 1

Fig 5



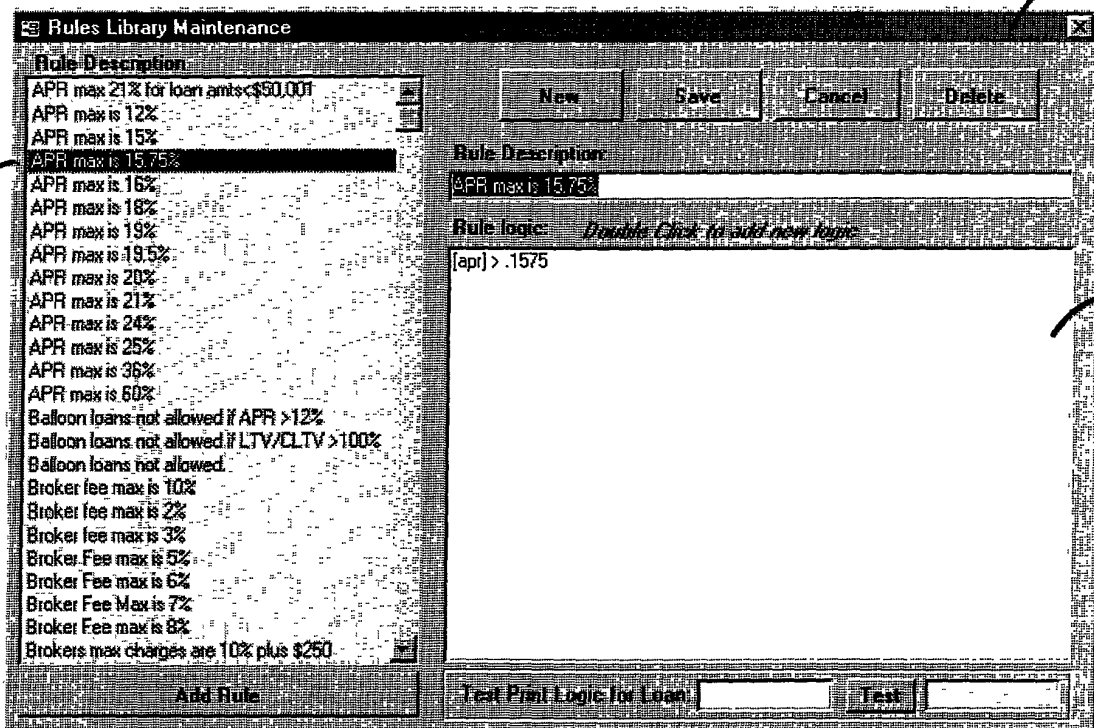


Fig. 6

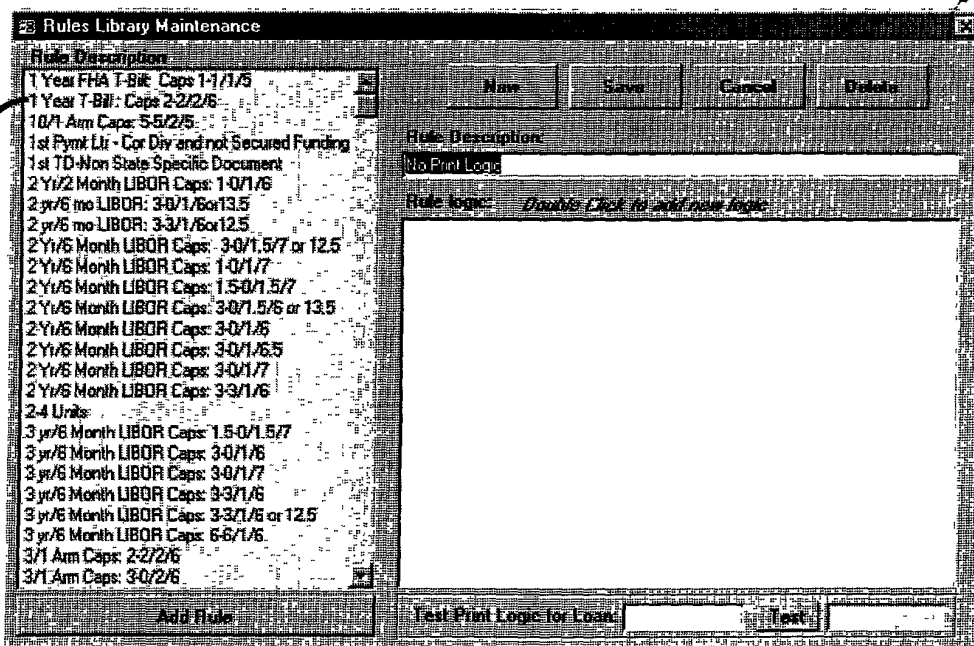


Fig. 8

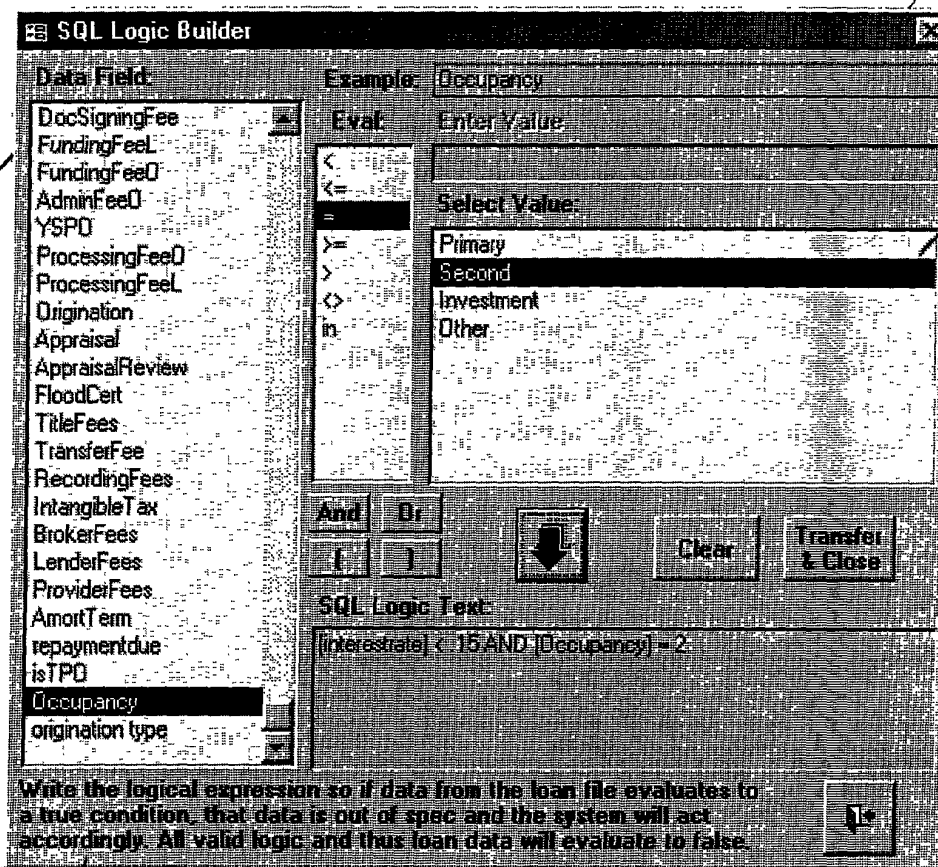


Fig. 7



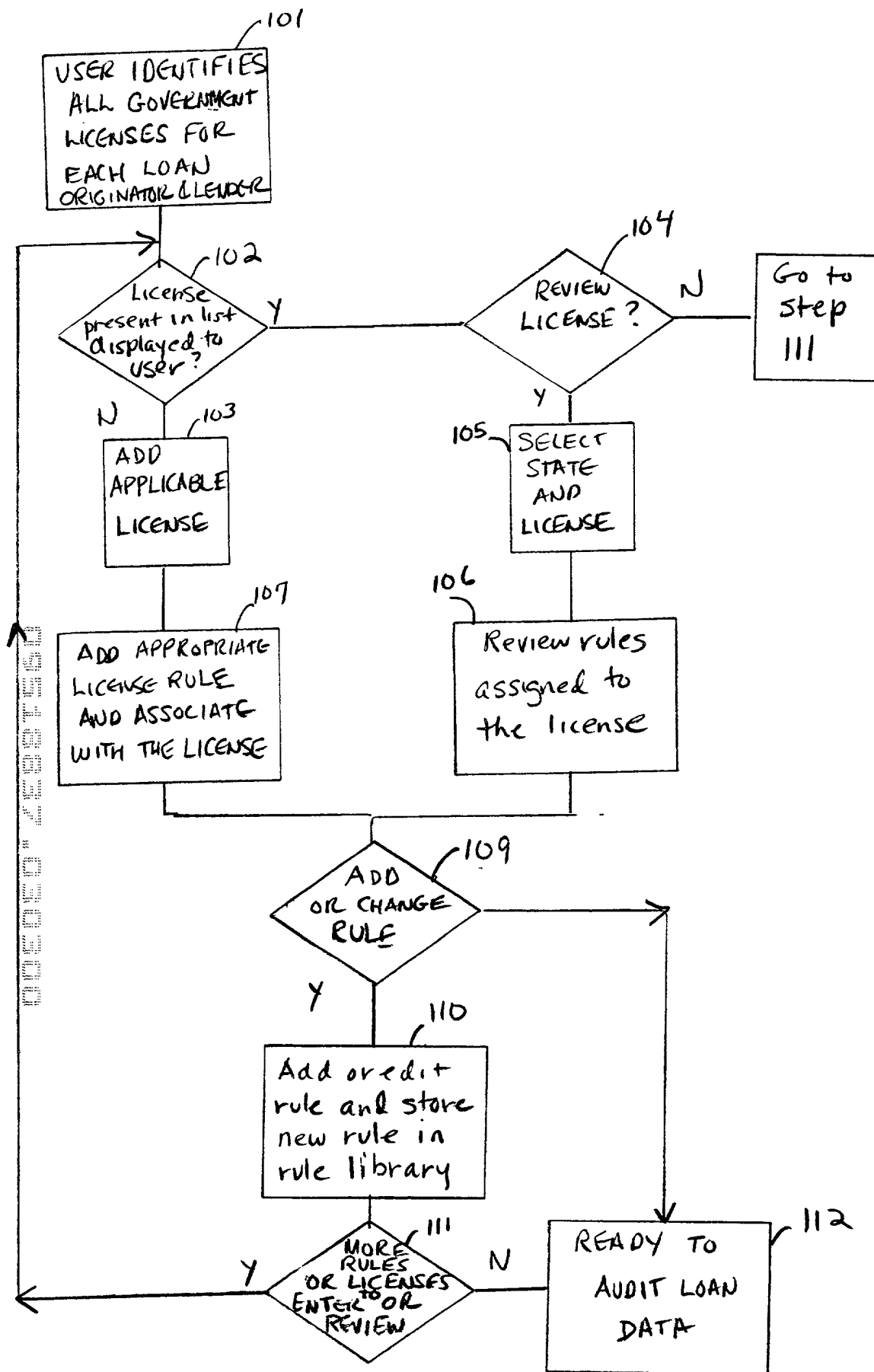


Fig. 10

120

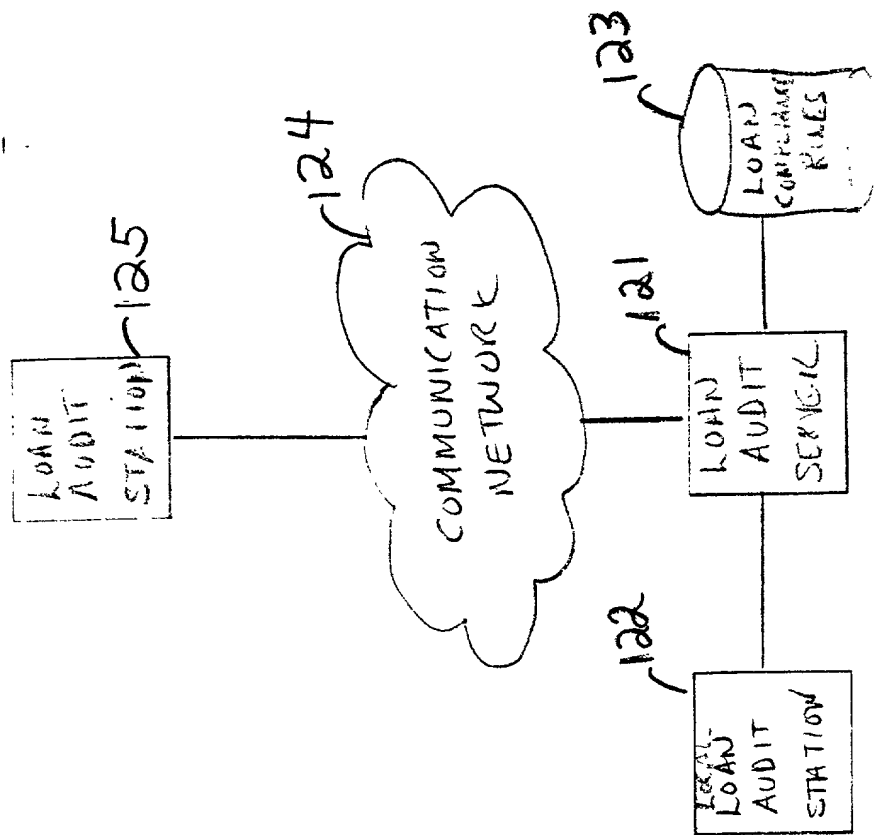


Fig. 11

## DECLARATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am an original, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **Loan Compliance Auditing System And Method**, the specification of which (check one):

☒ is attached hereto

☐ was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_ and (if applicable) was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendments referred to above. I acknowledge the duty to disclose information of which I am aware and which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of inventor: **Frank D. Tuttle**

Inventor's Signature: \_\_\_\_\_

Date: 3/2/2000

Post Office Address and Residence: **38 Cedarbrook, Irvine, California 92620**

Citizenship: **United States of America**